

GenCore version 5.1.6
Copyright (c) 1993 - 2003 Compugen Ltd.

OM protein - protein search, using sw model

Run on: May 29, 2003, 15:17:03 ; Search time 27 Seconds
(without alignments)
88.269 Million cell updates/sec

Title: US-09-924-102-2
Perfect score: 418
Sequence: 1 MLSTHFLYFLYFLYFLYSL.....RMGGGGRGTADTGMEFLS 81

Scoring table: BIOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 262574 seqs, 29422922 residues

Total number of hits satisfying chosen parameters: 262574

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

Database :

1: Issued_Patents_AA.*
2: /cgn2_6/ptodata/1/1aa/5A.COMB.pep.*
3: /cgn2_6/ptodata/1/1aa/5B.COMB.pep.*
4: /cgn2_6/ptodata/1/1aa/6A.COMB.pep.*
5: /cgn2_6/ptodata/1/1aa/6B.COMB.pep.*
6: /cgn2_6/ptodata/1/1aa/PTCUS.COMB.pep.*
7: /cgn2_6/ptodata/1/1aa/Backfile1.pep.*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	65	15.6	65	1	US-08-123-343A-2
2	65	15.6	222	4	US-09-605-785-479
3	65	15.6	222	4	US-09-439-313-479
4	64	15.3	175	4	US-09-395-689-4
5	64	15.3	633	1	US-08-458-477A-5
6	64	15.3	633	2	US-09-033-153-5
7	64	15.3	633	2	US-09-325-450B-5
8	64	15.3	765	2	US-08-663-112-2
9	62	14.8	63	4	US-08-828-683A-28
10	62	14.8	1898	1	US-08-056-200-94
11	62	14.8	1898	2	US-08-800-644-94
12	61.5	14.7	806	1	US-07-980-528-2
13	60	14.4	127	4	US-08-525-539A-65
14	59.5	14.2	151	4	US-08-858-207A-475
15	59.5	14.2	399	4	US-09-222-938A-49
16	59.5	14.2	595	4	US-09-370-838-187
17	59.5	14.2	760	1	US-08-195-152-2
18	58.5	14.0	2273	4	US-09-426-998-5
19	58	13.9	1958	1	US-07-945-283-2
20	57.5	13.8	126	2	US-08-822-028-28
21	57.5	13.8	126	4	US-08-479-285-28
22	57	13.6	29	1	US-07-694-983-14
23	57	13.6	3169	2	US-08-477-451-6
24	56	13.4	105	1	US-08-276-852-93
25	56	13.4	105	1	US-08-899-575-93
26	56	13.4	105	1	US-08-899-575-93
27	56	13.4	105	5	PCT-US95-08743-93

28	55	13.2	129	4	US-08-943-136-2	Sequence 2, Appl1
29	55	13.2	129	4	US-08-973-518-2	Sequence 2, Appl1
30	54.5	13.0	239	3	US-08-812-586-29	Sequence 29, Appl1
31	54.5	13.0	449	1	US-07-917-722-2	Sequence 2, Appl1
32	54.5	13.0	449	2	US-08-489-666C-3	Sequence 3, Appl1
33	54.5	13.0	449	2	US-08-911-092-3	Sequence 3, Appl1
34	54.5	13.0	449	2	US-08-485-001B-3	Sequence 3, Appl1
35	54.5	13.0	449	3	US-08-454-121A-3	Sequence 3, Appl1
36	54.5	13.0	449	4	US-08-482-161B-3	Sequence 3, Appl1
37	54.5	13.0	449	4	US-09-057-963A-2	Sequence 2, Appl1
38	54.5	13.0	577	4	US-09-261-855-2	Sequence 2, Appl1
39	54	12.9	266	1	US-08-247-809A-12	Sequence 12, Appl1
40	54	12.9	266	1	US-08-711-728-12	Sequence 12, Appl1
41	54	12.9	318	1	US-08-247-809A-2	Sequence 2, Appl1
42	54	12.9	318	1	US-08-247-809A-6	Sequence 6, Appl1
43	54	12.9	318	2	US-08-711-728-2	Sequence 2, Appl1
44	54	12.9	318	2	US-08-711-728-6	Sequence 6, Appl1
45	54	12.9	410	1	US-08-153-848-7	Sequence 7, Appl1

ALIGNMENTS

RESULT 1
US-08-123-343A-2
Sequence 2, Application US/08123343A
Patent No. 5593879
GENERAL INFORMATION:
APPLICANT: Steller, Hermann
APPLICANT: Abrams, John M.
APPLICANT: Grether, Megan E.
APPLICANT: White, Kristin
TITLE OF INVENTION: Cell Death Genes of Drosophila
TITLE OF INVENTION: Melanogaster and Vertebrate Analogs
NUMBER OF SEQUENCES: 16
CORRESPONDENCE ADDRESS:
ADDRESS: Hamilton, Brook, Smith & Reynolds, P.C.
STREET: Two Millitia Drive
CITY: Lexington
STATE: MA
COUNTRY: US
ZIP: 02173
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/123, 343A
FILING DATE: 17-SEP-1993
CLASSIFICATION: 800
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/004,957
FILING DATE: 15-JAN-1993
ATTORNEY/AGENT INFORMATION:
NAME: Granahan, Patricia
REGISTRATION NUMBER: 32,227
TELECOMMUNICATION INFORMATION:
TELEPHONE: 617-861-9540
TELEFAX: 617-861-6240
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 65 amino acids
TYPE: amino acid
STRANDEDNESS: unknown
TOPOLOGY: unknown
MOLECULE TYPE: protein
US-08-123-343A-2
Query Match 15.6%; Score 65; DB 1; Length 65;
Best Local Similarity 37.7%; Pred. No. 0.38;
Matches 23; Conservative 11; Mismatches 11; Indels 16; Gaps 4;

QY 16 LSYSLGDRARLCLRTKQOQEQOILROSEVLEF-----SETLR-----KTGKGR 62
Db 3 VAFIPIQATL-LREA--EQEQOILRLRESQWFLATVLELRLQTSCHPRTGRSGK 59
QY 63 W 63
Db 60 Y 60

RESULT 2

US-09-605-785-479
; Sequence 479, Application US/09605785
; Patent No. 6321716
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Harlocker, Susan L.
; APPLICANT: Jiang, Yuqi
; APPLICANT: Henderson, Robert A.
; APPLICANT: Kalos, Michael D.
; APPLICANT: Fanger, Gary R.
; APPLICANT: Retter, Marc W.
; APPLICANT: Stolck, John A.
; APPLICANT: Day, Craig H.
; APPLICANT: Vedvick, Thomas S.
; APPLICANT: Carter, Darrick
; APPLICANT: Li, Samuel
; APPLICANT: Wang, Aijun
; APPLICANT: Skeiky, Yasir A.W.
; APPLICANT: Hepler, William
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; FILE REFERENCE: 210121.427C16
; CURRENT APPLICATION NUMBER: US/09/605,785
; CURRENT FILING DATE: 2000-06-27
; NUMBER OF SEQ ID NOS: 835
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 479
; LENGTH: 222
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-605-785-479

Query Match 15.6%; Score 65; DB 4; Length 222;
Best Local Similarity 52.0%; Pred. No. 1.7;
Matches 13; Conservative 6; Mismatches 2; Indels 4; Gaps 1;

QY 11 LFTYFLSYSLGDRARLCLRTKQOQ 35
Db 199 IFFYF---LGNQARLCLKRRKKQ 219

RESULT 3
US-09-439-313-479
; Sequence 479, Application US/09439313
; Patent No. 6329505
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Harlocker, Susan Louise
; APPLICANT: Jiang, Yuqi
; APPLICANT: Reed, Steven G.
; APPLICANT: Kalos, Michael
; APPLICANT: Fanger, Gary
; APPLICANT: Retter, Mark
; APPLICANT: Stolck, John
; APPLICANT: Day, Craig
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THERAPY AND
; FILE REFERENCE: 210121.427C9

; CURRENT APPLICATION NUMBER: US/09/439,313
; CURRENT FILING DATE: 1999-11-12
; NUMBER OF SEQ ID NOS: 575
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 479
; LENGTH: 222
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-439-313-479

Query Match 15.6%; Score 65; DB 4; Length 222;
Best Local Similarity 52.0%; Pred. No. 1.7;
Matches 13; Conservative 6; Mismatches 2; Indels 4; Gaps 1;

QY 11 LFTYFLSYSLGDRARLCLRTKQOQ 35
Db 199 IFFYF---LGNQARLCLKRRKKQ 219

RESULT 4
US-09-395-689-4
; Sequence 4, Application US/09395689
; Patent No. 6387684
; GENERAL INFORMATION:
; APPLICANT: Hwang, Jaulang
; APPLICANT: Hui, Cho-Fat
; APPLICANT: Chen, Tzong-Yueh
; TITLE OF INVENTION: TOPOISOMERASE 1-MEDIATED DNA DELIVERY
; FILE REFERENCE: 089191/024001
; CURRENT APPLICATION NUMBER: US/09/395,689
; CURRENT FILING DATE: 1999-09-13
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 4
; LENGTH: 175
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-395-689-4

Query Match 15.3%; Score 64; DB 4; Length 175;
Best Local Similarity 30.0%; Pred. No. 1.7;
Matches 18; Conservative 9; Mismatches 33; Indels 0; Gaps 0;

QY 18 YSLGDRARLCLRTKQOQEQOILROSEVLEFSETLRKTGKGRMGCGGGRGTADTG 77
Db 23 YETARRLKCVDRIRQYREDWKSKEKVRQRAVALYFTDKLALRAGNEKEBETADTVG 82

RESULT 5
US-08-458-477A-5
; Sequence 5, Application US/08458477A
; Patent No. 5723311
; GENERAL INFORMATION:
; APPLICANT: WEI, ET AL.
; TITLE OF INVENTION: Human Topoisomerase I
; NUMBER OF SEQUENCES: 5
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: CARELLA, BYRNE, BAIN, GILFILLAN,
; ADDRESSEE: CECCHI, STEWART & OLSTEIN
; STREET: 6 BECKER FARM ROAD
; CITY: ROSELAND
; STATE: NEW JERSEY
; COUNTRY: USA
; ZIP: 07068
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5 INCH DISKETTE
; COMPUTER: IBM PS/2
; OPERATING SYSTEM: MS-DOS
; SOFTWARE: WORD PERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/458,477A
; FILING DATE: June 2, 1995
; CLASSIFICATION: 435

PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/US94/05701
FILING DATE: 18 MAY 94
ATTORNEY/AGENT INFORMATION:
NAME: MULLINS, J.G.
REGISTRATION NUMBER: 33,073
REFERENCE/DOCKET NUMBER: 325800-309 (PFI18P1)
TELECOMMUNICATION INFORMATION:
TELEPHONE: 201-994-1700
TELEFAX: 201-994-1744
INFORMATION FOR SEQ ID NO: 5:
SEQUENCE CHARACTERISTICS:
LENGTH: 633 AMINO ACIDS
TYPE: AMINO ACID
STRANDEDNESS:
TOPOLOGY: LINEAR
MOLECULE TYPE: PROTEIN
US-08-458-477A-5

Query Match 15.3%; Score 64; DB 1; Length 633;
Best Local Similarity 30.0%; Pred. No. 7.8;
Matches 18; Conservative 9; Mismatches 33; Indels 0; Gaps 0;

Qy 18 YSLGDRARLCLRTKQOQKEQOILROSEVLFRTSLRTKTKGKGRMGOGGGRGTADTGG 77
Db 312 YETARRLKCVDKIRNQRREDWKSKEKVKRQRAVALYFDIKLALRAGNEKEGETADTVG 371

RESULT 6
US-09-033-153-5
Sequence 5, Application US/09033153
Patent No. 5968803
GENERAL INFORMATION:

APPLICANT: WEI, ET AL.

TITLE OF INVENTION: Human Topoisomerase I

NUMBER OF SEQUENCES: 5

CORRESPONDENCE ADDRESSES:

ADDRESSEE: CARELLA, BYRNE, BAIN, GILFILLAN,

STREET: 6 BECKER FARM ROAD

CITY: ROSELAND

STATE: NEW JERSEY

COUNTRY: USA

ZIP: 07068

COMPUTER READABLE FORM:

MEDIUM TYPE: 3.5 INCH DISKETTE

COMPUTER: IBM PS/2

OPERATING SYSTEM: MS-DOS

SOFTWARE: WORD PERFECT 5.1

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/033,153

FILING DATE:

CLASSIFICATION: 435

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/458,477

FILING DATE: June 2, 1995

APPLICATION NUMBER: PCT/US94/05701

FILING DATE: 18 MAY 94

ATTORNEY/AGENT INFORMATION:

NAME: MULLINS, J.G.

REGISTRATION NUMBER: 33,073

REFERENCE/DOCKET NUMBER: 325800-309 (PFI18P1)

TELECOMMUNICATION INFORMATION:

TELEPHONE: 201-994-1700

TELEFAX: 201-994-1744

INFORMATION FOR SEQ ID NO: 5:

SEQUENCE CHARACTERISTICS:

LENGTH: 633 AMINO ACIDS

TYPE: AMINO ACID

STRANDEDNESS:

TOPOLOGY: LINEAR

MOLECULE TYPE: PROTEIN

US-09-033-153-5

Query Match 15.3%; Score 64; DB 2; Length 633;
Best Local Similarity 30.0%; Pred. No. 7.8;
Matches 18; Conservative 9; Mismatches 33; Indels 0; Gaps 0;

Qy 18 YSLGDRARLCLRTKQOQKEQOILROSEVLFRTSLRTKTKGKGRMGOGGGRGTADTGG 77
Db 312 YETARRLKCVDKIRNQRREDWKSKEKVKRQRAVALYFDIKLALRAGNEKEGETADTVG 371

RESULT 7
US-09-325-430B-5
Sequence 5, Application US/09325430B
Patent No. 6255077
GENERAL INFORMATION:

APPLICANT: Wei et al.

TITLE OF INVENTION: Human DNA Topoisomerase 1 Alpha

FILE REFERENCE: PFI18D2

CURRENT APPLICATION NUMBER: US/09/325,430B

CURRENT FILING DATE: 1999-06-04

PRIOR APPLICATION NUMBER: 09/033,153

PRIOR FILING DATE: 1998-03-02

PRIOR APPLICATION NUMBER: 08/458,477

PRIOR FILING DATE: 1995-06-02

PRIOR APPLICATION NUMBER: PCT/US94/05701

PRIOR FILING DATE: 1994-05-18

NUMBER OF SEQ ID NOS: 5

SOFTWARE: PatentIn Ver. 2.1

SEQ ID NO: 5

LENGTH: 633

TYPE: PRT

ORGANISM: Homo sapiens

US-09-325-430B-5

Query Match 15.3%; Score 64; DB 4; Length 633;
Best Local Similarity 30.0%; Pred. No. 7.8;
Matches 18; Conservative 9; Mismatches 33; Indels 0; Gaps 0;

Qy 18 YSLGDRARLCLRTKQOQKEQOILROSEVLFRTSLRTKTKGKGRMGOGGGRGTADTGG 77
Db 312 YETARRLKCVDKIRNQRREDWKSKEKVKRQRAVALYFDIKLALRAGNEKEGETADTVG 371

RESULT 8

US-08-663-112-2

Sequence 2, Application US/08663112

Patent No. 5849503

GENERAL INFORMATION:

APPLICANT: WAGATSUMA, Masako

APPLICANT: KURITA, No. 58495031ko

TITLE OF INVENTION: MUTANT PROTEINS OF HUMAN DNA

TITLE OF INVENTION: TOPOISOMERASE I

NUMBER OF SEQUENCES: 7

CORRESPONDENCE ADDRESSES:

ADDRESSEE: Finnegan, Henderson, Farabow, Garrett &

STREET: 1300 I Street, N.W.

CITY: Washington

STATE: D.C.

COUNTRY: USA

ZIP: 20005-3315

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: PatentIn Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/663,112

FILING DATE: 26-NOV-1996

CLASSIFICATION: 435

ATTORNEY/AGENT INFORMATION:

NAME: Elnaudi, Carolyn P.

REGISTRATION NUMBER: 32,220

